

Claims

1. Mobile route monitoring unit (2) with data memory (6) to store present route data with tolerance data;  
a position sensor (3) to indicate the position of the mobile route-monitoring unit (2);  
a processor (5) to indicate possible route deviations between the route (1') defined by the route data and the current position of the route monitoring unit (2); and  
a transmitter (4), which in the event of a route deviation sends a message to a control room (7) wherein  
the route data represent the route (1') in the form of coordinates and assigned route vectors, and the tolerance data exist as authorized deviation values in the vertical direction of the next route vector, whereby the length of the route vectors (1') and the values of authorized deviation for all route vectors can be selected depending on the route and can be adjusted to same.
2. Mobile route monitoring unit (2) according to Claim 1, wherein the transmitter (4) communicates via the GSM network voice channel.
3. Mobile route monitoring unit (2) according to one of the previous claims, wherein the mobile route monitoring unit (2) comprises a data reception device or input to receive the preset route data.
4. Mobile route monitoring unit (2) according to Claim 3, wherein the data reception device is a reader which can read data from a changeable storage medium.
5. Mobile route monitoring unit (2) according to Claim 3, wherein the data reception device is a receiver which communicates via the voice channel of the GSM network.

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6. Mobile route monitoring unit (2) according to one of the previous claims, wherein the position sensor (3) is a GPS receiver (3).
7. Mobile route monitoring unit (2) according to one of the previous claims, wherein the stored route data can be changed at any time.
8. Route monitoring system (2, 7) including a mobile route monitoring unit (2) according to one of the previous claims, wherein the system (2, 7) comprises a device to process the route data.
9. Route monitoring system (2, 7) including a mobile route-monitoring unit (2) according to Claims 1 through 10, wherein the system (2, 7) comprises a receiver assigned to the transmitter (4).

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1. Mobile route monitoring unit (2) with  
data memory (6) to store present route data;  
a position sensor (3) to indicate the position of the mobile route-monitoring unit  
(2);  
a processor (5) to indicate possible route deviations between the route (1') defined  
by the route data and the current position of the route monitoring unit (2); and  
a transmitter (4), which in the event of a route deviation, sends a message to a  
control room (7).
2. Mobile route monitoring unit (2) according to Claim 1, wherein the transmitter (4)  
communicates via the GSM network voice channel.
3. Mobile route monitoring unit (2) according to one of the previous claims, wherein  
the mobile route monitoring unit (2) comprises a data reception device or data  
reception input to receive the preset route data.
4. Mobile route monitoring unit (2) according to Claim 3, wherein the data reception  
device is a reader which can read data from a removable storage medium.
5. Mobile route monitoring unit (2) according to Claim 3, wherein the data reception  
device is a receiver which communicates via the voice channel of the GSM  
network.
6. Mobile route monitoring unit (2) according to one of the previous claims, wherein  
the position sensor (3) is a GPS receiver (3).

7. Mobile route monitoring unit (2) according to one of the previous claims, wherein the route data represent the route (1') in the form of coordinates and associated vectors.
8. Mobile route monitoring unit (2) according to Claim 7, wherein the represented distances between the coordinates can vary.
9. Mobile route monitoring unit (2) according to one of the previous claims, wherein the route data comprises tolerance data which indicate the authorized route deviation.
10. Mobile route monitoring unit (2) according to one of the previous claims, wherein the stored route data can be changed at any time.
11. Route monitoring system (2, 7) including a mobile route monitoring unit (2) according to one of the previous claims, wherein the system (2, 7) comprises a device to process the route data.
12. Route monitoring system (2, 7) including a mobile route-monitoring unit (2) according to Claims 1 through 10, wherein the system (2, 7) comprises a receiver assigned to the transmitter (4).